

6.0 x Ø2.0 mm

# LOW FREQUENCY, REFLOWABLE, CYLINDRICAL TYPE CRYSTALS TUNING FORK SURFACE MOUNT AB26TR Series

## FEATURES:

- Excellent shock resistance.
- Frequency from 30kHz to 165kHz.
- Formed leads for low cost SMD type.
- Reflow capable.

## APPLICATIONS:

- Real-time clock.
- Blue-tooth and wireless applications.
- Measuring instruments.
- Clock source for communication.

## STANDARD SPECIFICATIONS

Frequency Range	32.768kHz	30kHz to 165kHz
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Turnover Temperature	25°C to ±5°C	
Frequency Tolerance @ 25C	±20ppm max.	±30ppm max.
Frequency Stability over Temp	-0.034 ±0.006ppm / (25-T) <sup>2</sup> (See Note)	
Equivalent Series Resistance (ESR)	35kΩ max.	35kΩ to 50kΩ max.
Shunt Capacitance C <sub>0</sub>	1.35pF typical	0.8pF to 1.7pF
Load Capacitance C <sub>L</sub>	12.5pF (See Options)	
Motion Capacitance C <sub>1</sub>	0.003pF typ.	0.001pF-0.004pF
Capacitance ratio	450 typ.	425 to 800 typ.
Drive Level	1μW max.	
Aging @ 25°C per year	±5ppm max.	
Insulation Resistance:	500MΩ min. at 100Vdc ±15Vdc	

**NOTE:** Example; Stability at -20°C is:  $-0.034 \times (25 - [-20])^2 = -68.8\text{ppm}$ .

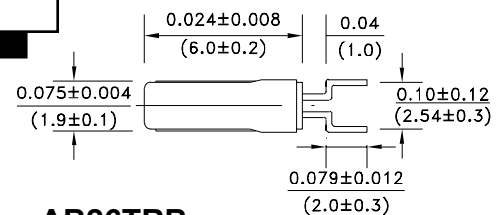
Environmental, and mechanical specifications, see appendix C.

Tape and Reel, (2,000pcs/reel), appendix H.

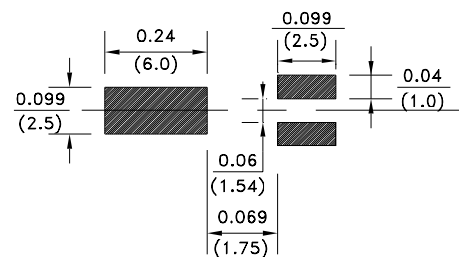
Marking, see appendix G.

Application notes, see appendix A.

Recommended handling, see appendix F.



Recommended Land Pattern



Dimensions: Inches (mm)

## ORDERING OPTIONS

AB26TRX - Frequency - CL - Tolerance - Packaging

B

Load cap in pF

- T (Tape & Reel)

XX.XXXX kHz

- 1 for ±10ppm max.  
- 7 for ±15ppm max.



NOTE: Left blank if standard • All specifications and markings subject to change without notice

29 Journey • Aliso Viejo, CA 92656 • USA

(949) 448-7070 • FAX: (949) 448-8484

E-MAIL: [abinfo@abracon.com](mailto:abinfo@abracon.com) • INTERNET ADDRESS: [www.abracon.com](http://www.abracon.com)

ABRACON IS  
ISO 9001 / QS 9000  
CERTIFIED